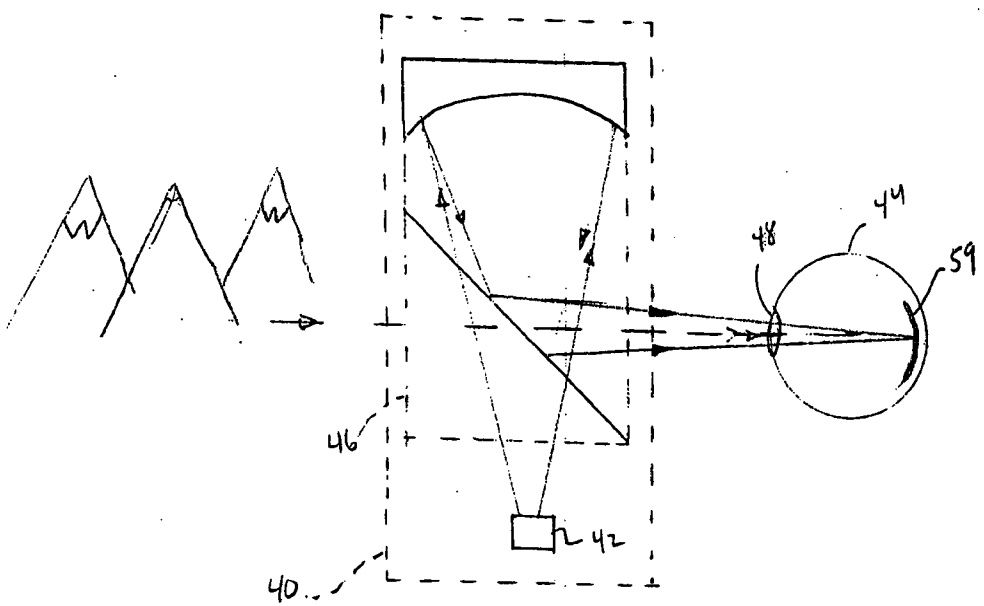


FIG 1

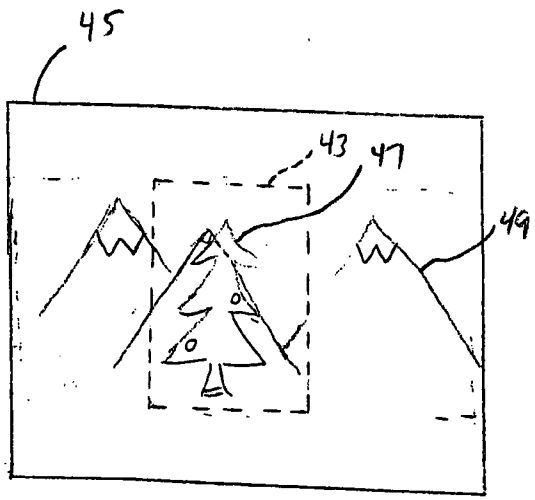


FIG 2A

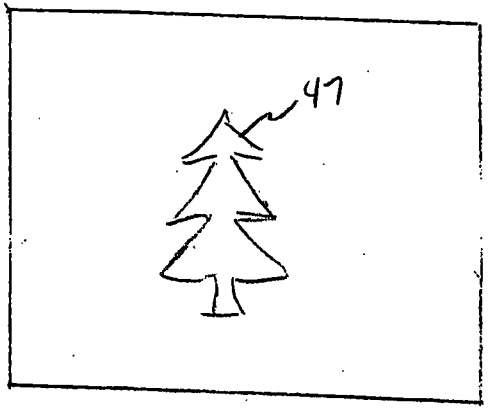


FIG 2B

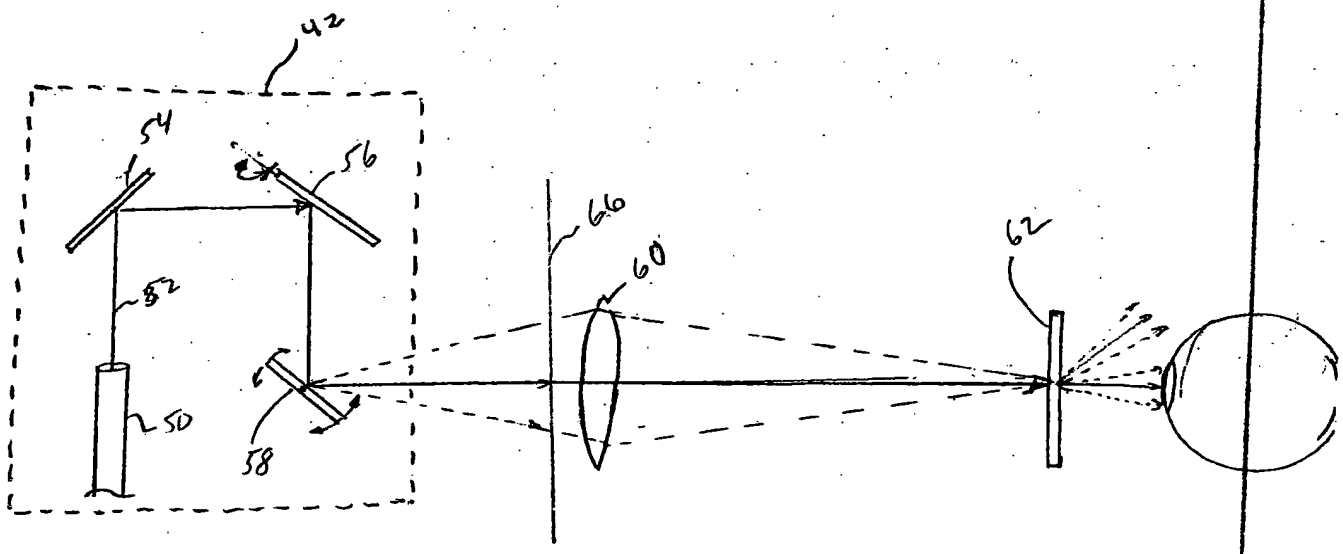


FIG 3

TOPS 35500

FIG 4A

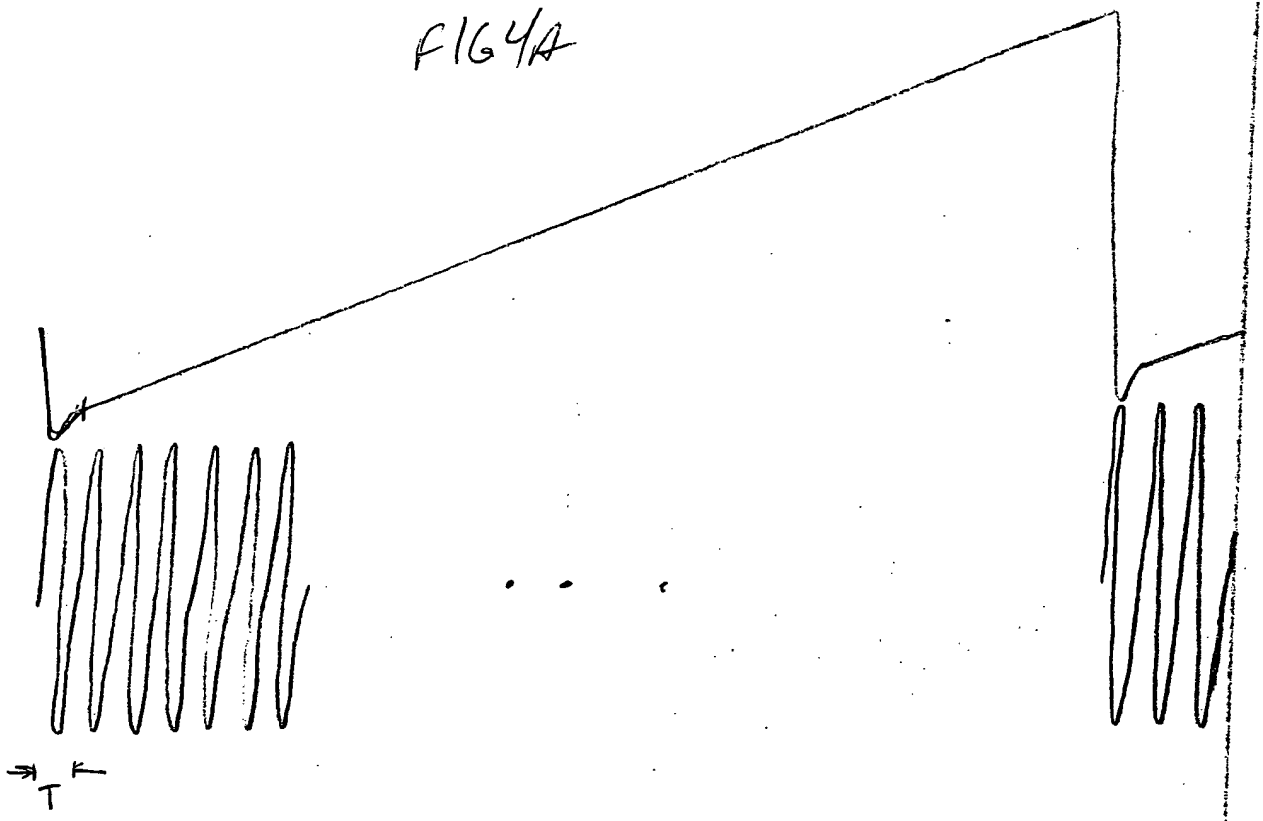
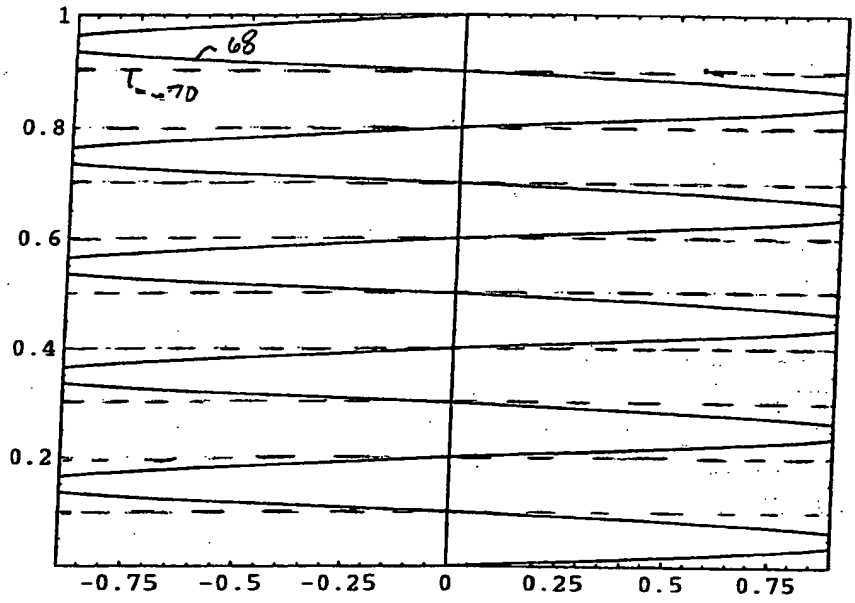


FIG. 4B

```
fh = 1;
dyc = .1;
ga = 0;
a1 = - dyc / 2 / Pi ga;
ParametricPlot[{xb[t], yb1[t]}, {t, 0, 5 / fh},
 AspectRatio -> 3 / 4,
 Frame -> True,
PlotRange -> {{-.9, .9}, {0, 1}}];
Clear[fh, dyc];
```



For comparison this is an uncorrected raster.

FIG 5

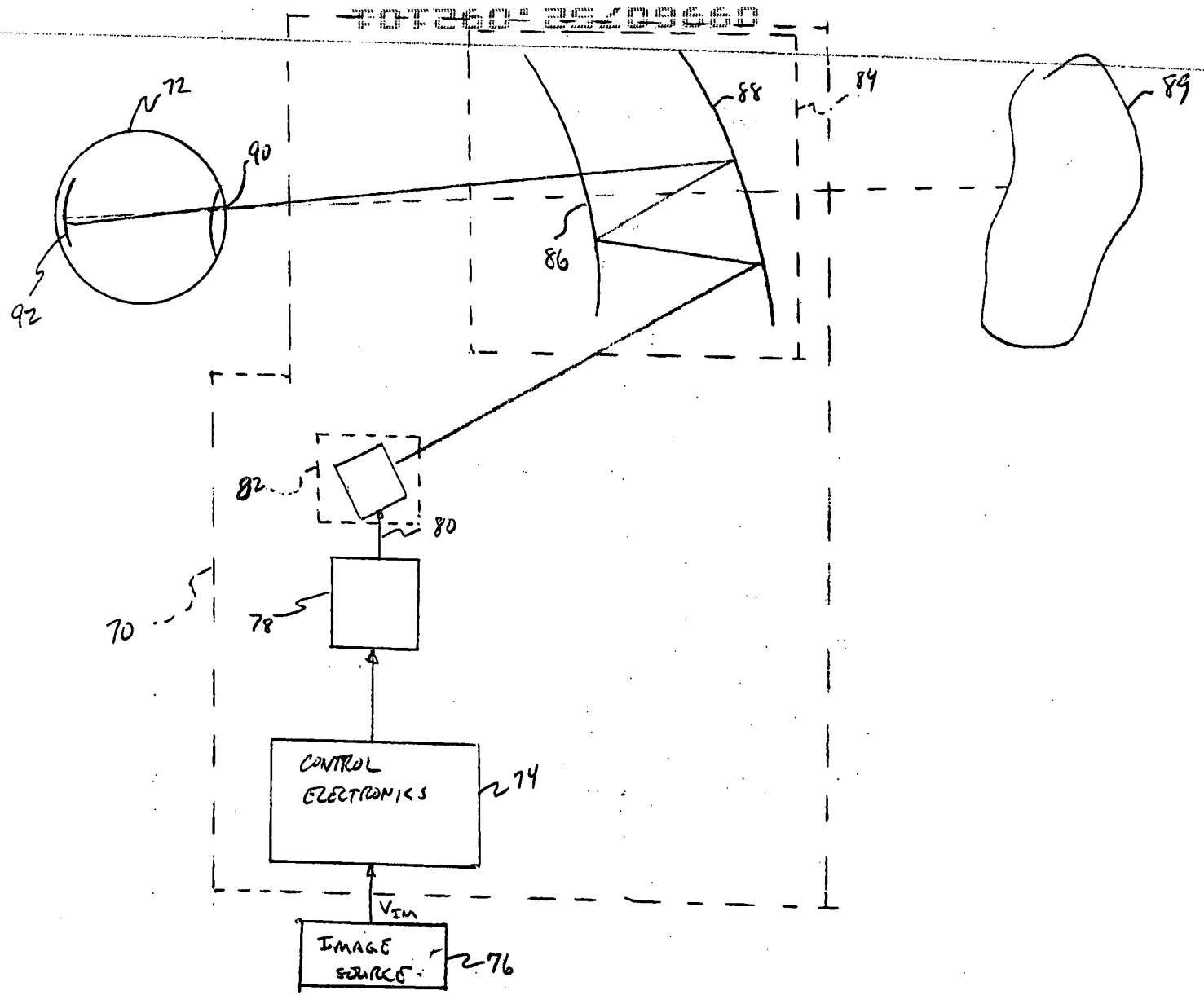

72
90
92
88
84
89
86
82
80
70
78
CONTROL ELECTRONICS
74
V_{IM}
IMAGE SOURCE
76

FIG 6

SPE 500

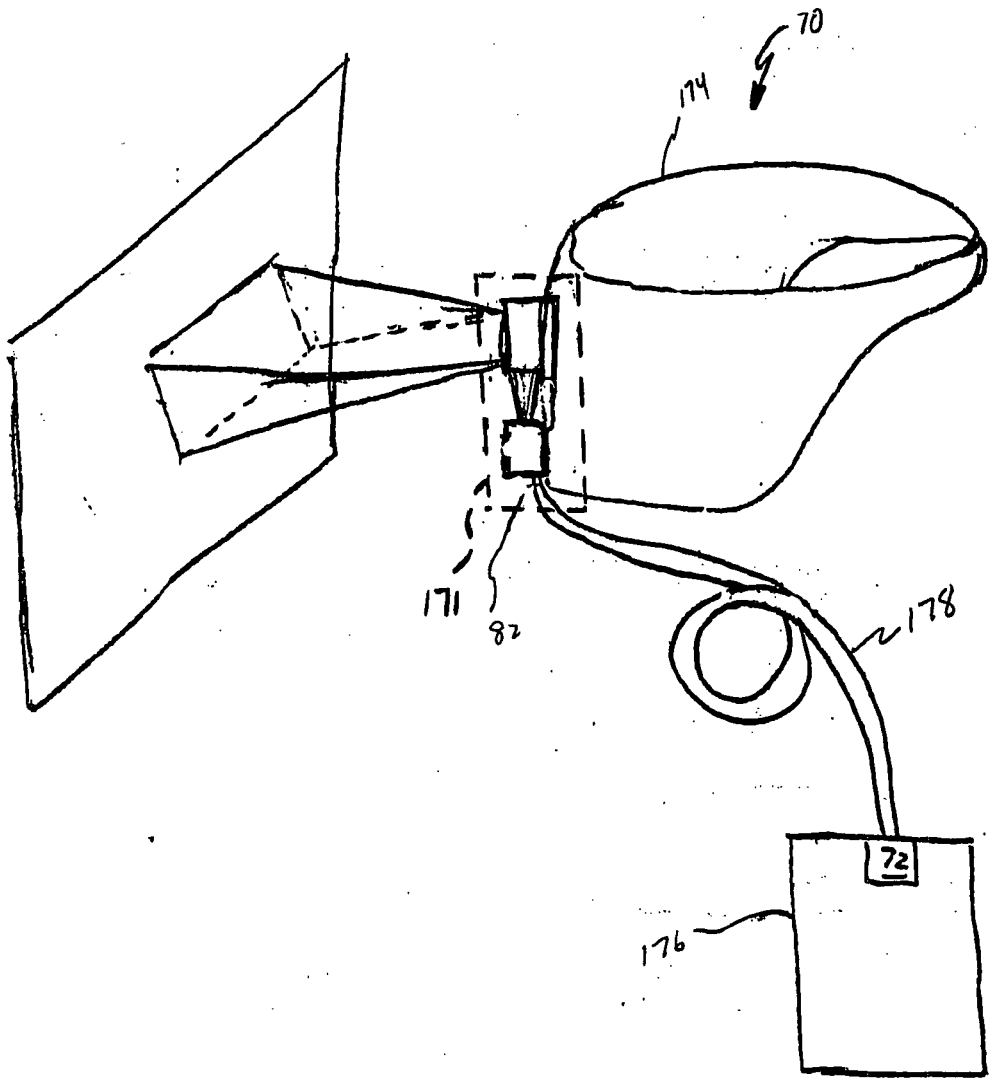


FIG. 7

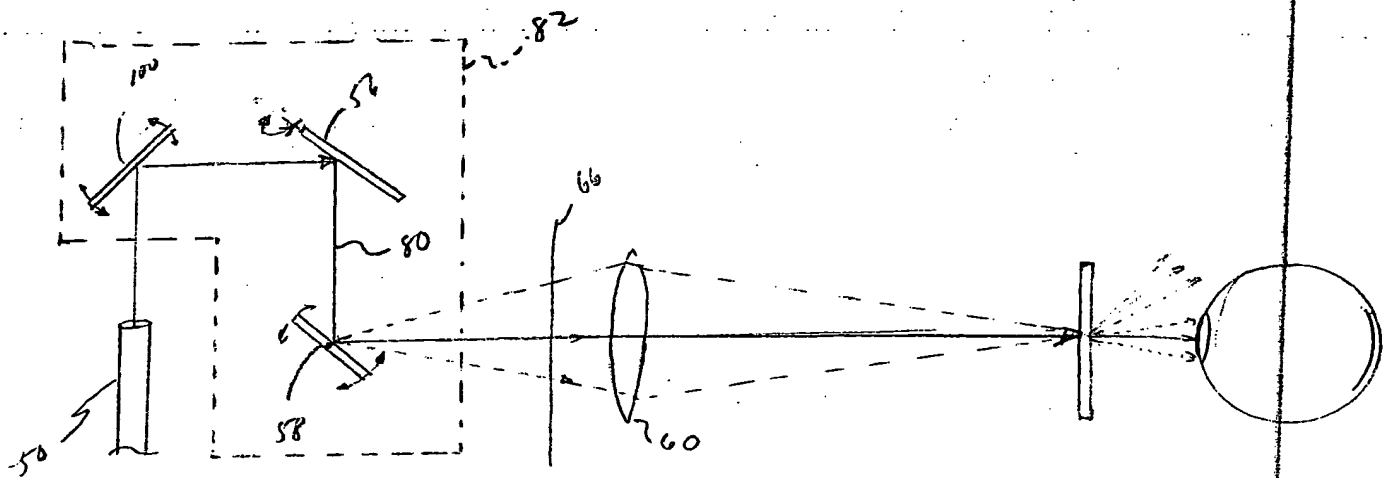


FIG. 8

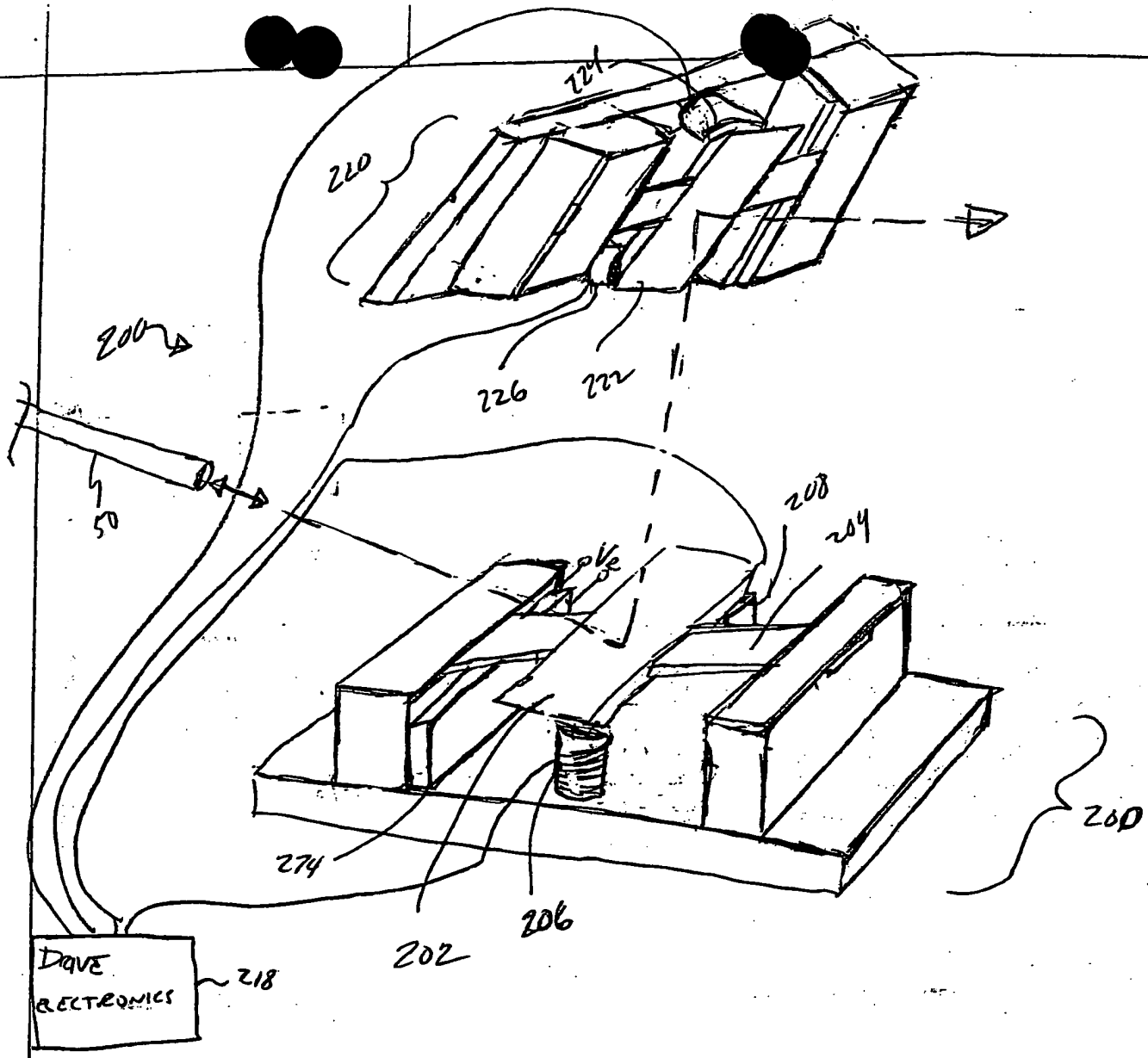

224
220
200
226
222
50
208
204
210
274
206
202
DRIVE ELECTRONICS
218

FIG 9

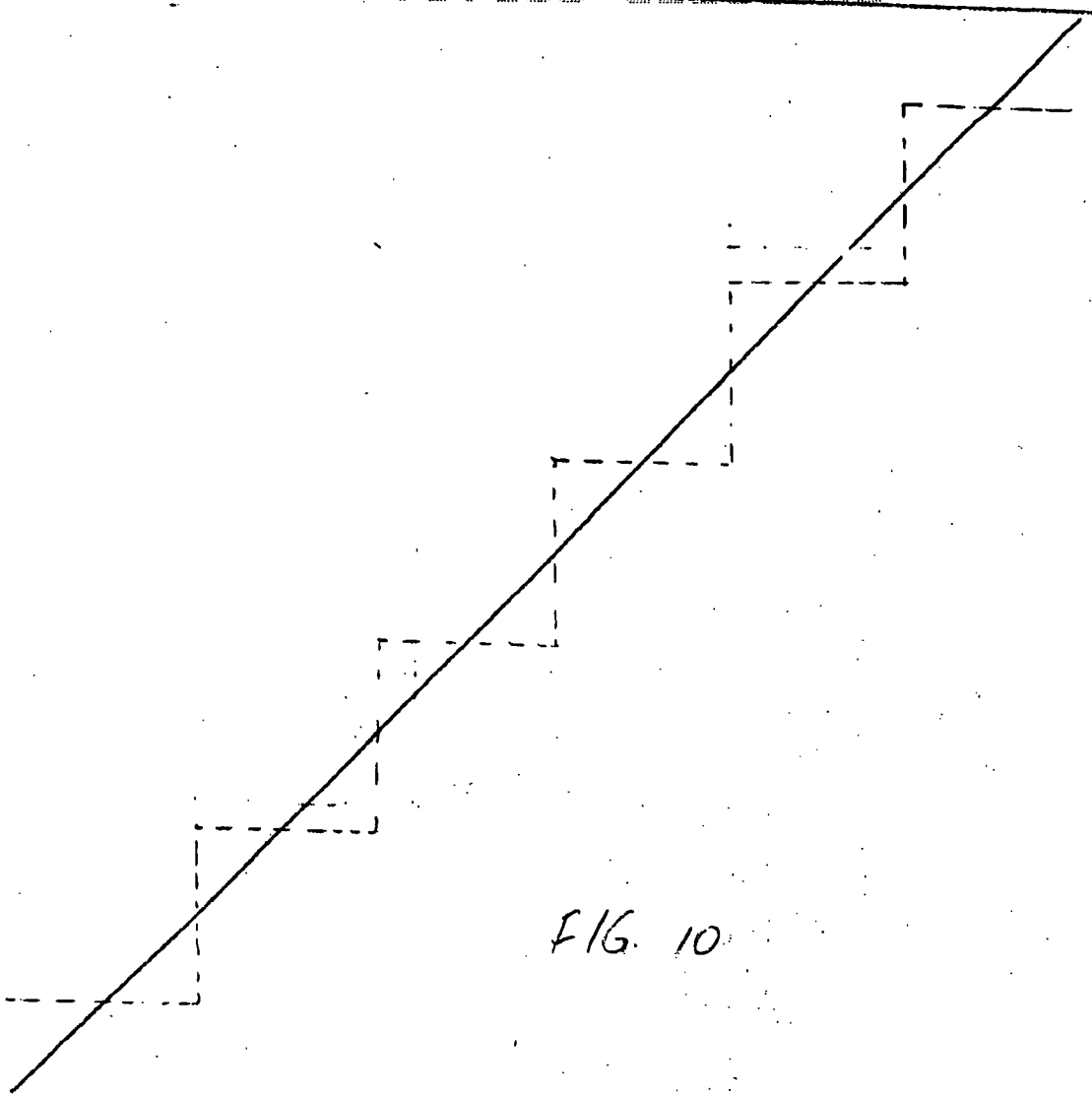


FIG. 10

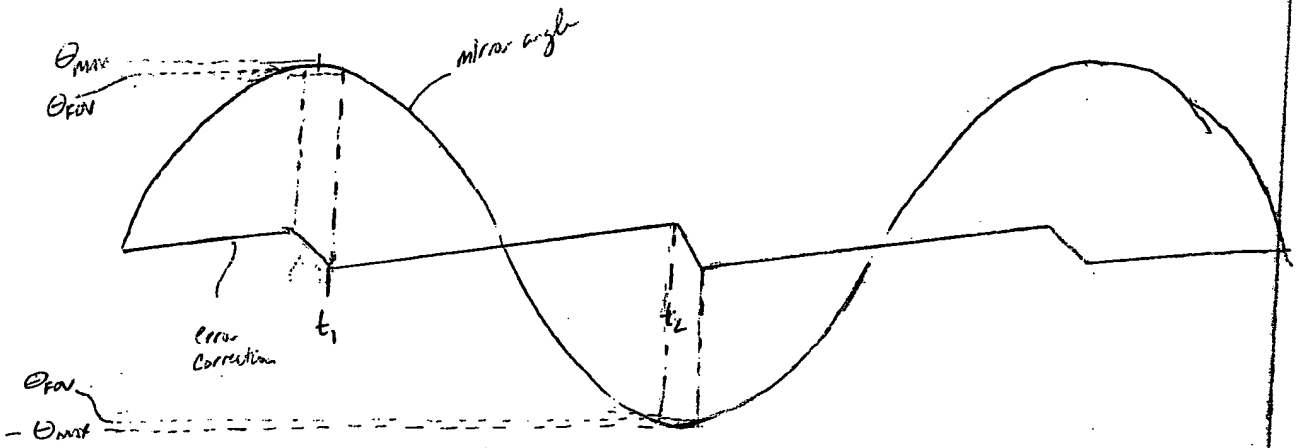


FIG 11

FOR 35 U.S.C. 256 ONLY

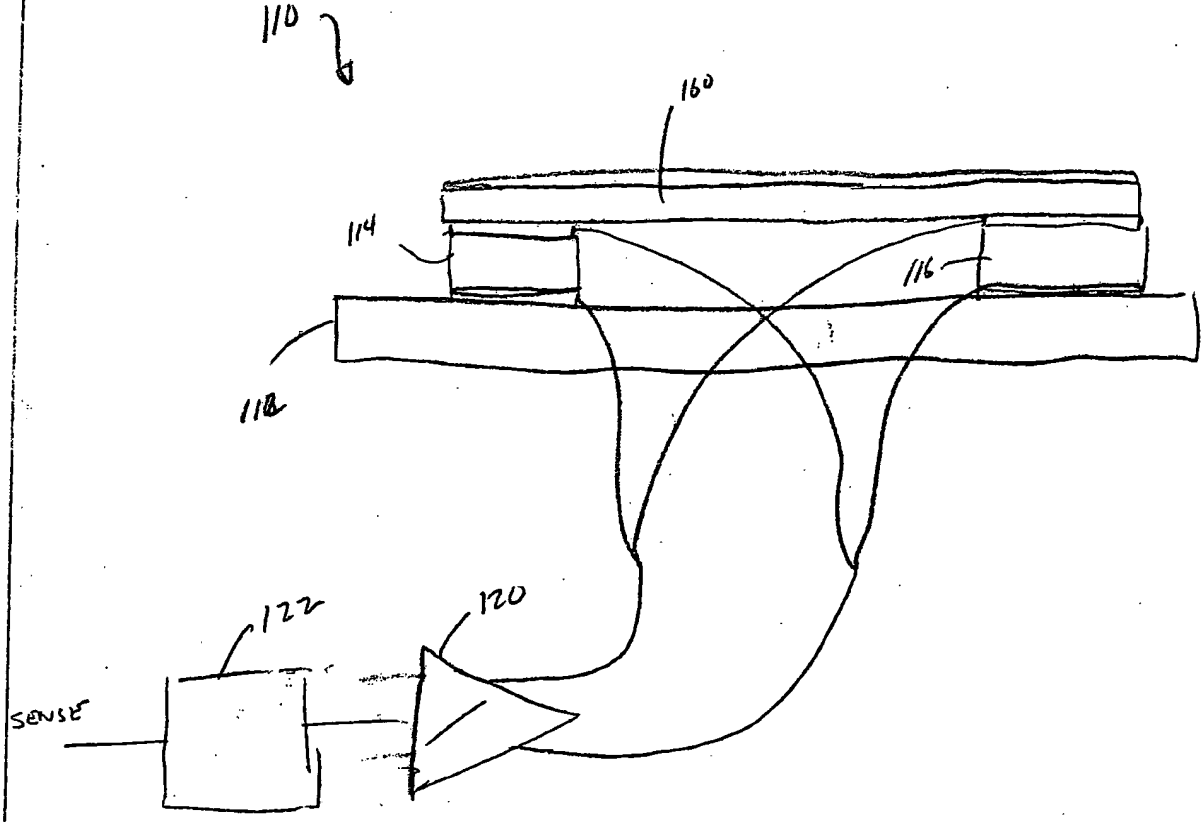


FIG 12

PRINTED ON RECYCLED PAPER

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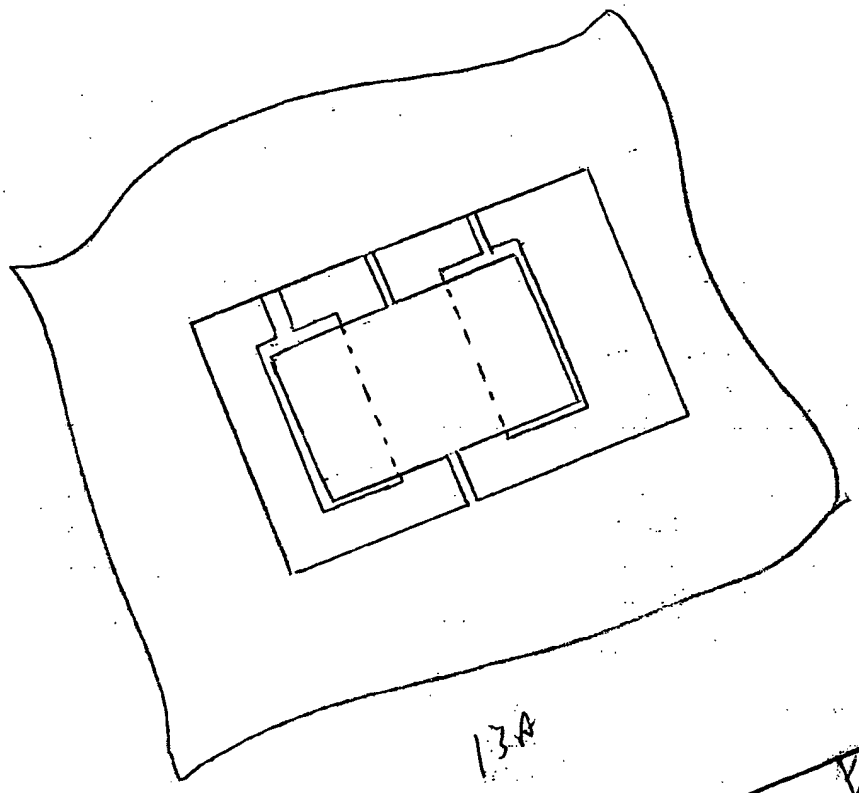
35500

PAGE 29 OF 29 PAGES



13A

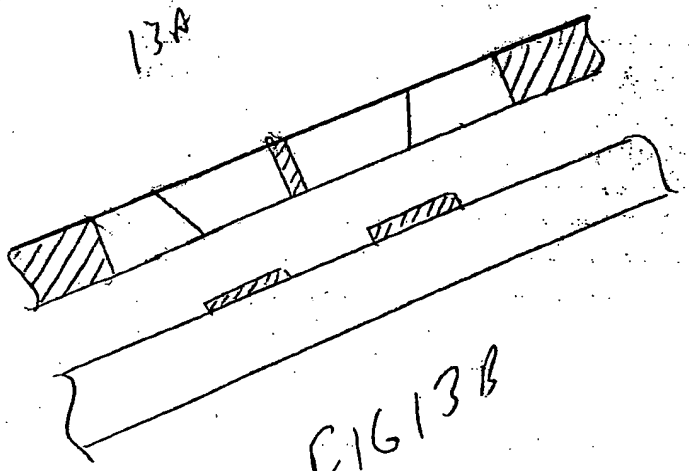


FIG13B

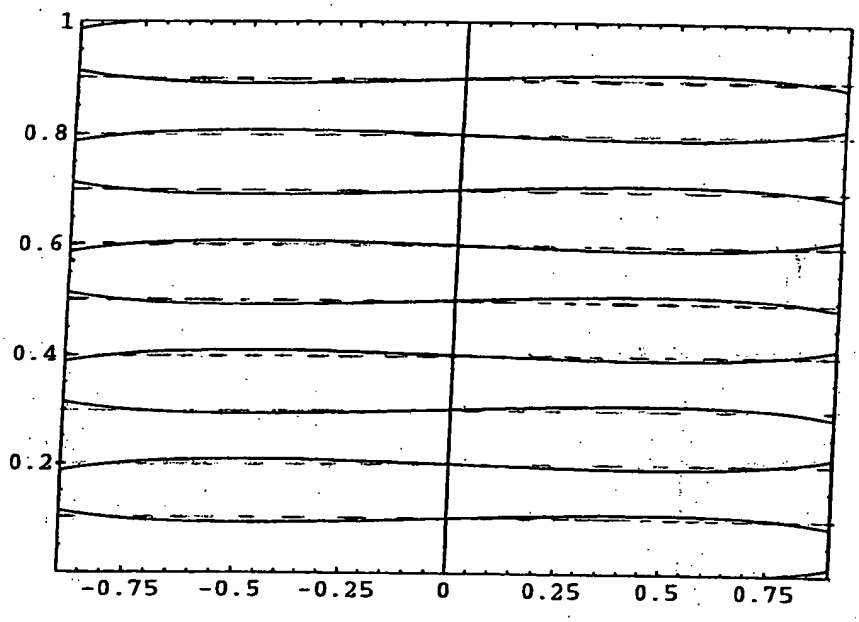


FIG 14

EP 0 795 359 A2

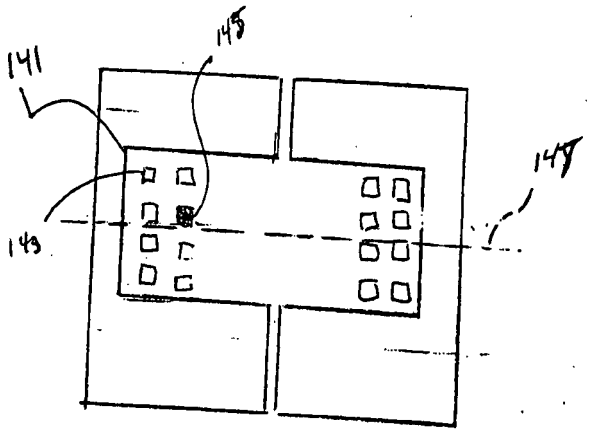


FIG 15

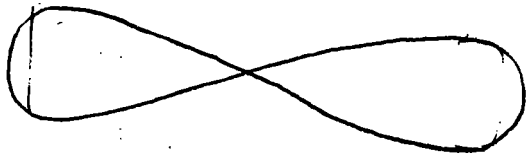


FIG 16

EPO260 3520660

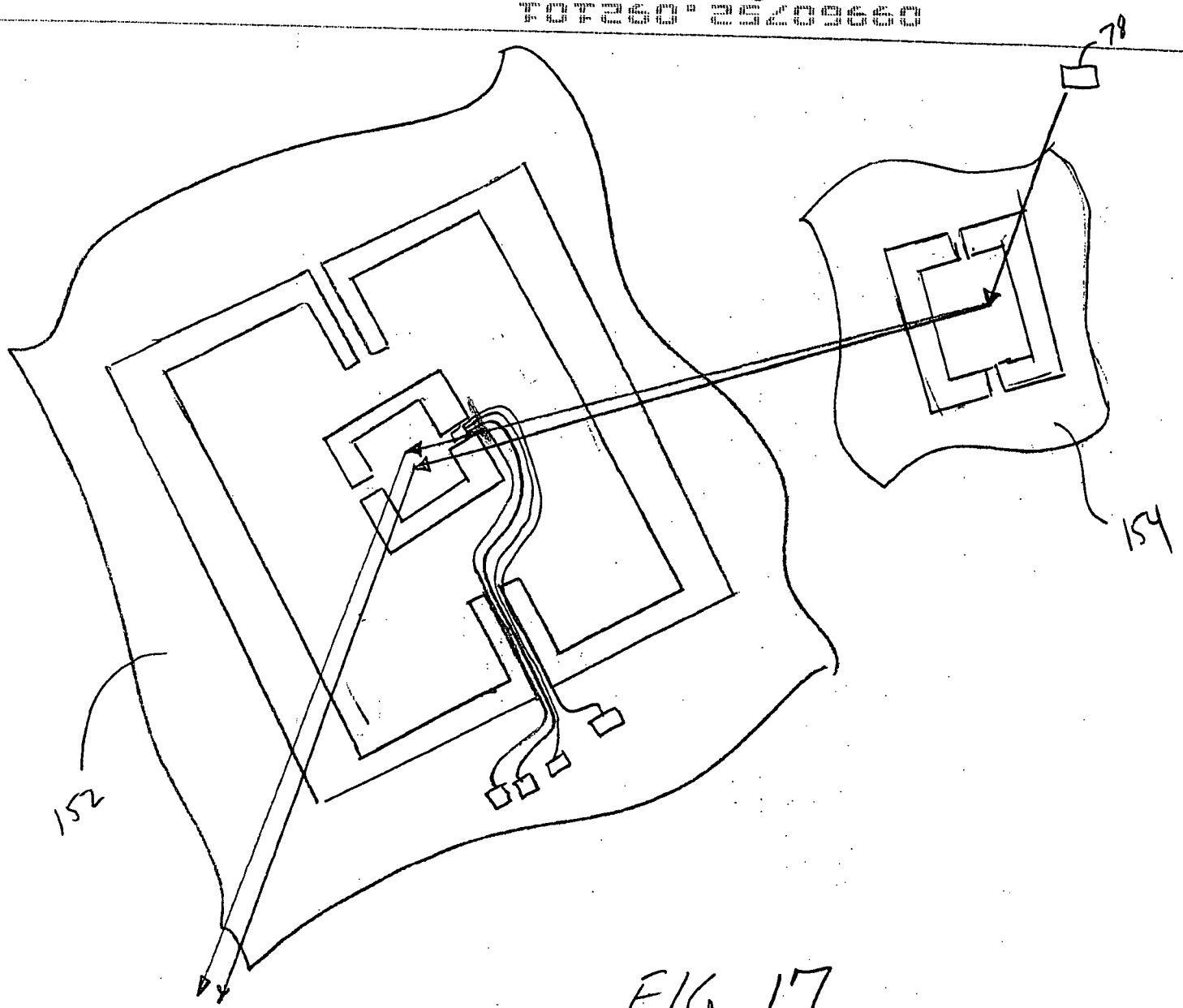


FIG. 17

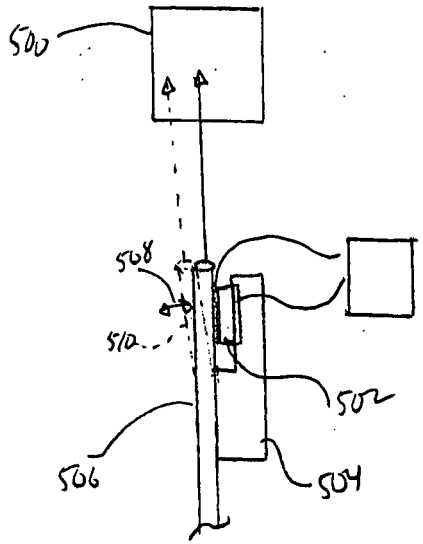


FIG. 18

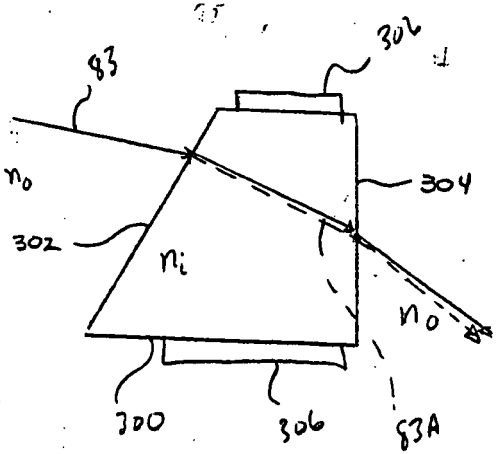


FIG 19

EP 2 209 660

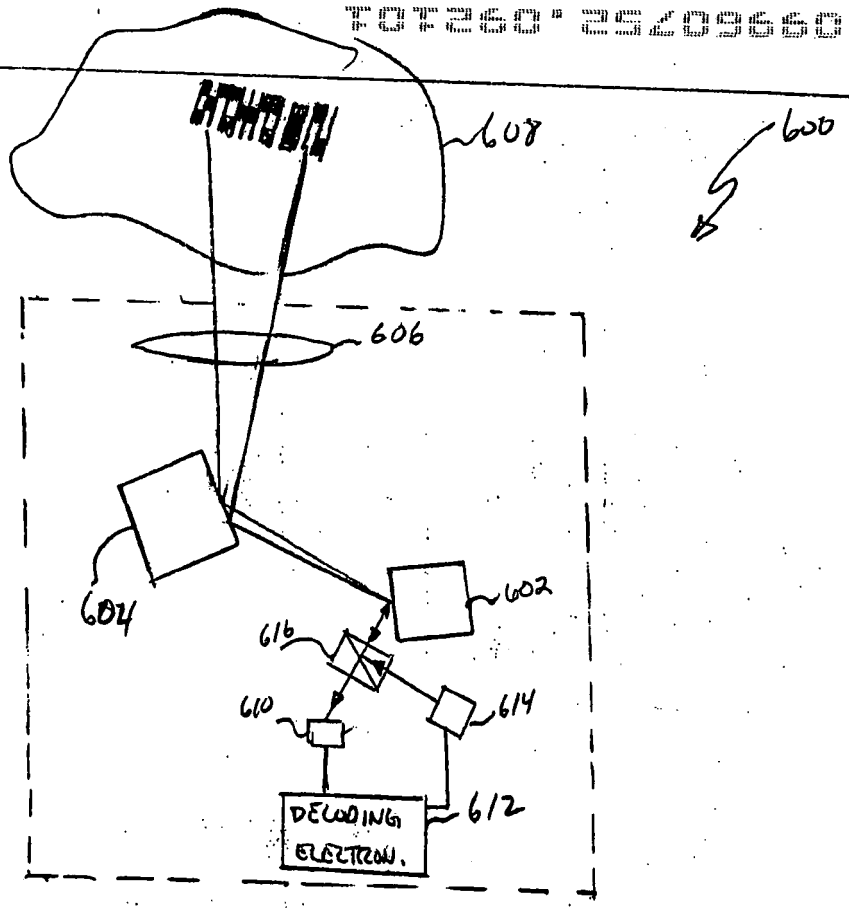


FIG 20

TOTAL-35209660

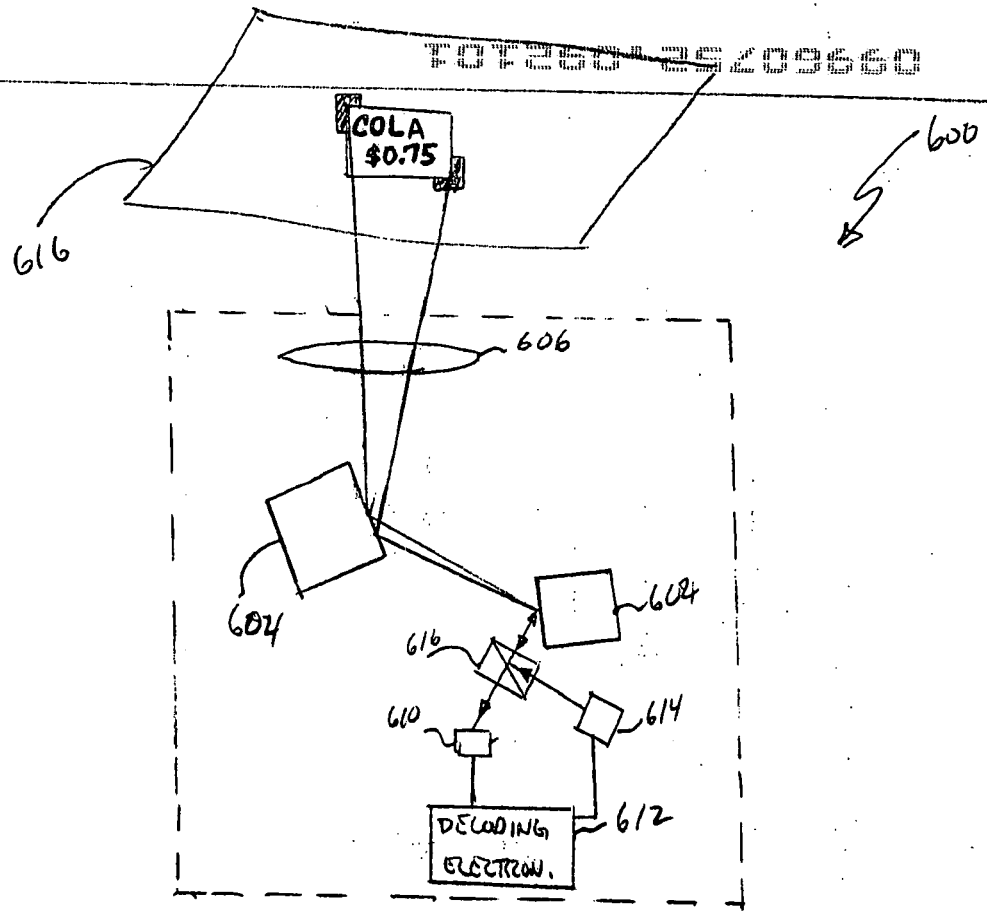


FIG 2f

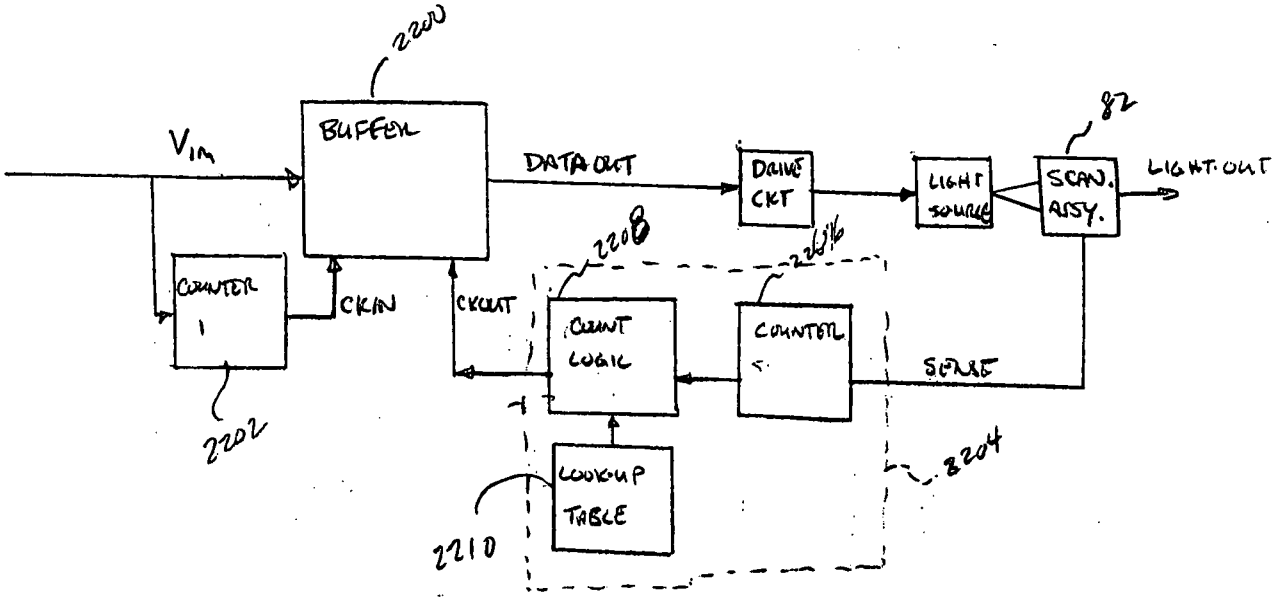
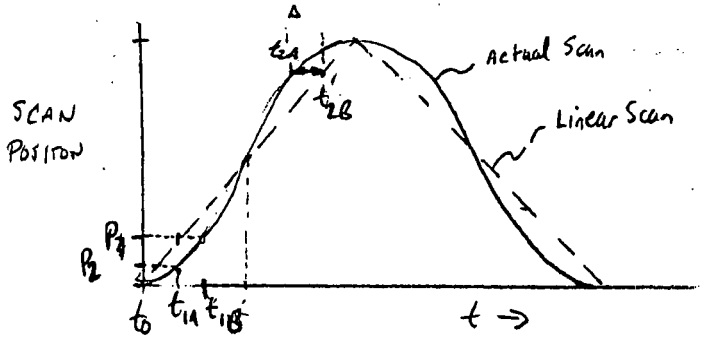
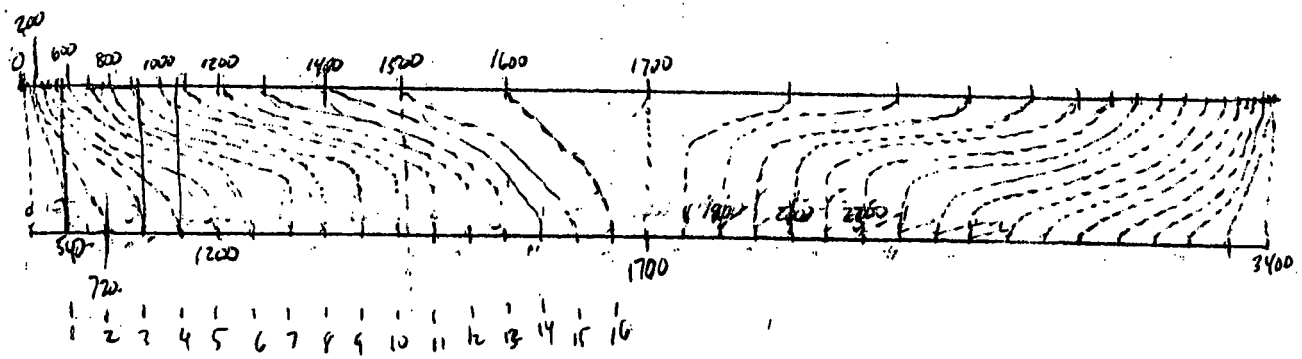

2200
BUFFER
V_{IN}
DATA OUT
DRIVE CKT
LIGHT SOURCE
82
SCAN. ASSY.
LIGHT OUT
COUNTER 1
CKIN
CKOUT
2208
2206
COUNT LOGIC
COUNTER 2
SENSE
2202
LOOK-UP TABLE
2210
2204

FIG 22


SCAN
POSITION
Actual Scan
Linear Scan
t →

F1623


200
0
600
800
1000
1200
1400
1500
1600
1700
540
720
1200
1700
3400
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

F1624

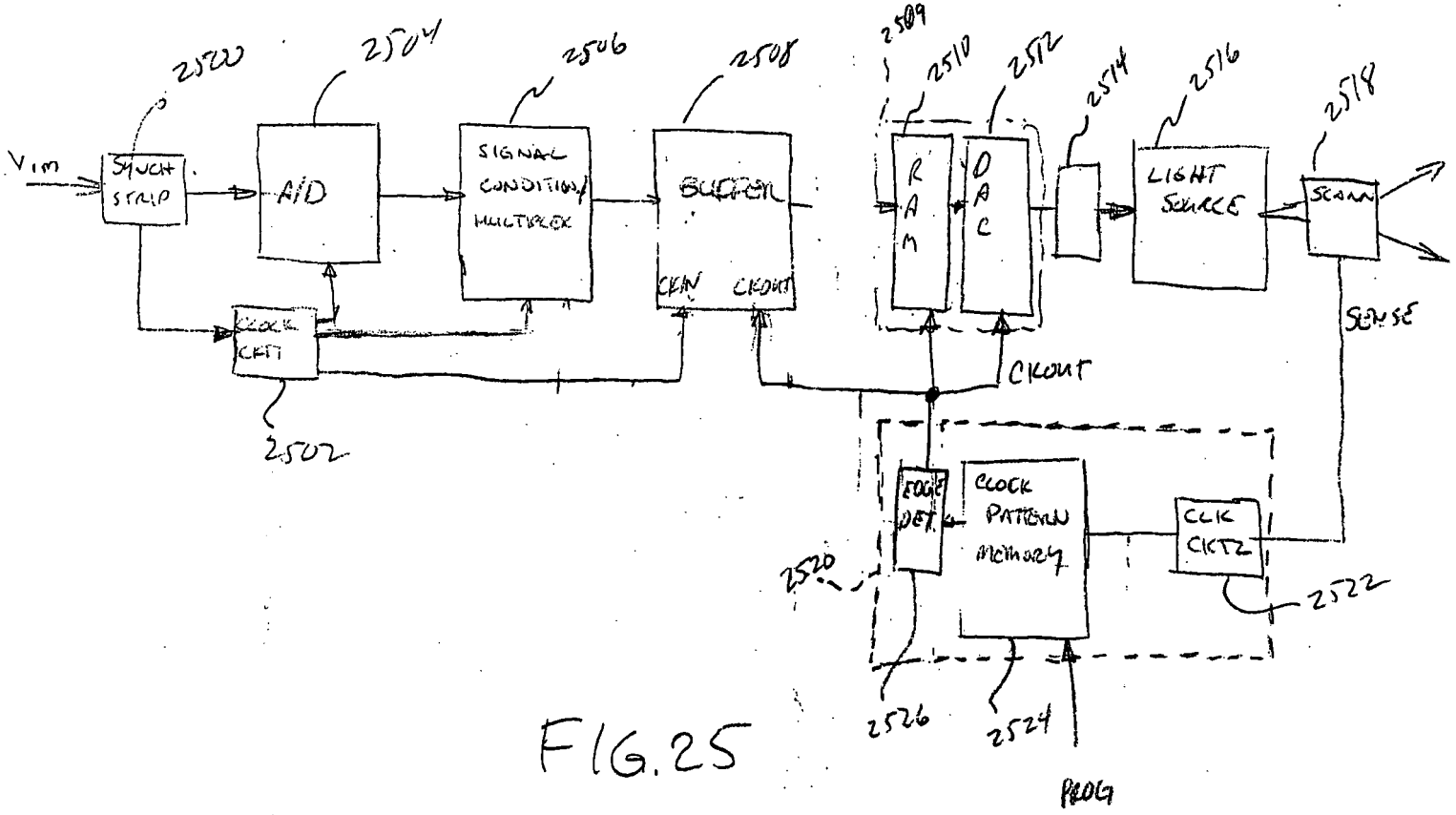

2500
2504
2506
2508
2509
2510
2512
2514
2516
2518
Vin
SYNCH STRIP
A/D
SIGNAL CONDITION/ MULTIPLEX
BUFFER
CKIN
CKOUT
RAM
DAC
LIGHT SOURCE
SCANN
SENSE
CLOCK CKT
2502
CKOUT
EDGE DET
CLOCK PATTERN MEMORY
CLK CKT2
2520
2522
2526
2524
PROG

FIG.25

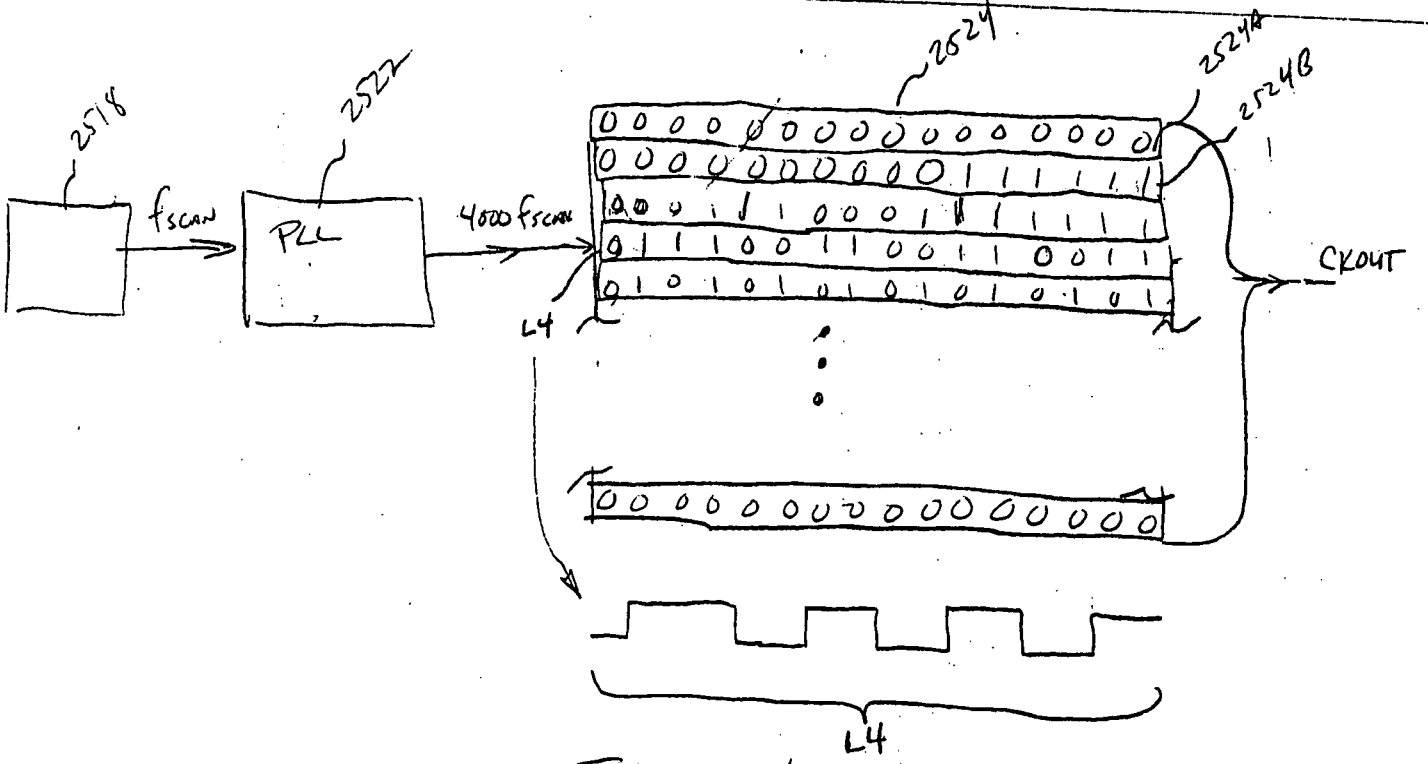


FIG. 26

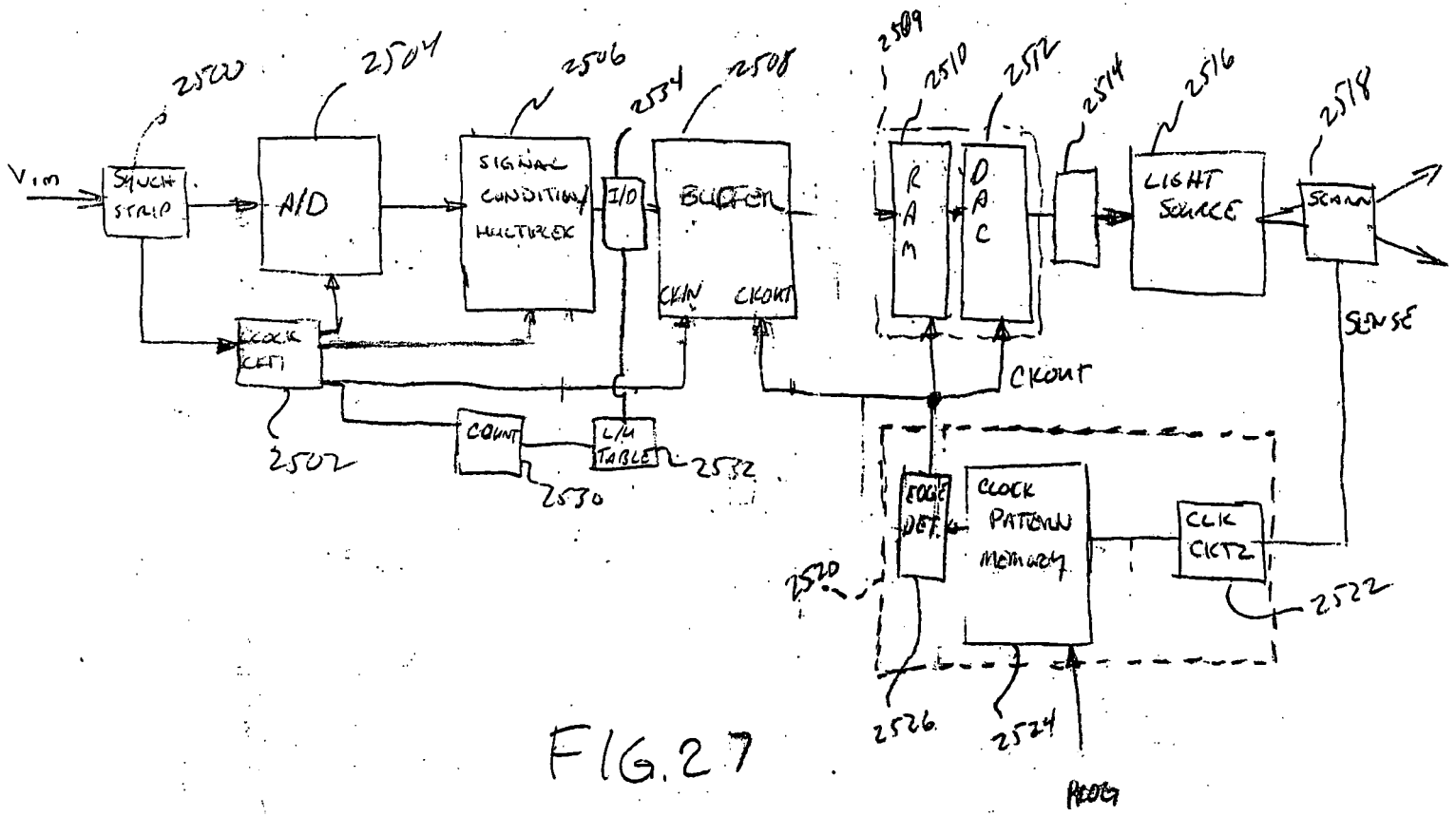

Vin
SYNCH STRIP
2520
A/D
2504
SIGNAL CONDITION/ MULTIPLEX
2506
I/O
2534
BUFFER
2508
CKIN
CKOUT
2509
RAM
2510
DAC
2512
2514
LIGHT SOURCE
2516
SCAN
2518
SENSE
CLOCK GEN
2502
COUNT
2530
L/U TABLE
2532
CKOUT
EDGE DET.
CLOCK PATTERN MEMORY
CLK CKT2
2522
2520
2526
2524
PROG

FIG. 27

$B_{0,0}$	$B_{0,1}$	$B_{0,2}$	0	0	0	0	0	0	0	0
$B_{1,0}$	$B_{1,1}$	$B_{1,2}$	$B_{0,3}$	$B_{0,4}$	$B_{0,5}$	$B_{0,6}$	$B_{0,7}$	0	0	0
$B_{2,0}$	$B_{2,1}$	$B_{2,2}$	$B_{1,3}$	$B_{1,4}$	$B_{1,5}$	$B_{1,6}$	$B_{1,7}$	$B_{0,8}$	$B_{0,9}$	$B_{0,10}$

FIG 28